

CURRICULUM VITAE
of
WARREN K. LASKEY, M.D.

PERSONAL DATA

Work Address Uniformed Services University of the Health Sciences
 4301 Jones Bridge Road,
 Room A3060
 Bethesda, MD 20814
 E mail: ulaskey@usuhs.mil
 Phone: 301 295 3623

EDUCATION

B.A. Columbia College
 New York, New York
M.D. New York University School of Medicine
 New York, New York

POSTGRADUATE TRAINING

Internship (medical)

Intern in Medicine
University of Minnesota Hospitals
Minneapolis, MN

Residency

Resident, Department of Medicine
University of Minnesota Hospitals
Minneapolis, MN
Chief Resident, Department of Medicine
Minneapolis Veterans Administration Hospital
Minneapolis, MN

Fellowship

Cardiology Fellow
Hospital of the University of Pennsylvania
Philadelphia, Pennsylvania

Research Fellow
American Heart Association
Southeastern Pennsylvania Heart Association
NIH Research Fellowship Training

CERTIFICATIONS

American Board of Internal Medicine
American Board of Internal Medicine; Subspecialty in
Cardiovascular Disease
American Board of Internal Medicine; Subspecialty in
Cardiovascular Disease- Certificate of Added Qualification in
Interventional Cardiology

LICENSURES

Minnesota (inactive)
Pennsylvania
Maryland

FACULTY/STAFF POSITIONS

1981-88	Assistant Professor of Medicine University of Pennsylvania School of Medicine Philadelphia, PA
1988-95	Associate Professor of Medicine University of Pennsylvania School of Medicine Philadelphia, PA
1995- 2002	Professor of Medicine University of Maryland, School of Medicine Baltimore, MD
2002- 2003	Director, Cardiac Catheterization Laboratory National Naval Medical Center Bethesda, MD
2003-	Associate Director, Division of Cardiology Uniformed Services University for the Health Sciences Bethesda, MD

MAJOR ACADEMIC TASKS

1983-95	Director of Research Cardiac Catheterization Laboratory Hospital of the University of Pennsylvania Philadelphia, PA
1990-95	Director, Adult Congenital Heart Disease Program.

	Hospital of the University of Pennsylvania Philadelphia, PA
1990-93	Medical Director, Doylestown Hospital Cardiac Catheterization Laboratory Philadelphia, PA
1993-95	Director Cardiac Catheterization Laboratory Philadelphia VA Medical Center Philadelphia, PA
1995-2002	Director, Cardiac Catheterization Laboratories University of Maryland Medical & Veterans Administration Medical Centers Baltimore, MD
1998-2002	Director, Interventional Cardiology Training Program University of Maryland School of Medicine
1995-2001	Associate Director Division of Cardiology, Department of Medicine University of Maryland School of Medicine Baltimore, MD

PROFESSIONAL MEMBERSHIPS

1984-	Fellow, American College of Cardiology
1987-	Fellow, Society for Cardiac Angiography
1988-	Member, Cardiovascular Systems Dynamics Society
1989-	Fellow, American Heart Association Council on Clinical Cardiology

HONORS, AWARDS

Alpha Omega Alpha
James E. Tower Prize, New York University, School of Medicine
Glover C. Arnold Prize, New York University
Founders Award, New York University School of Medicine

EDITORIAL TASKS

Editorial Boards

1992-95	Associate Editor, <u>Annals of Internal Medicine</u>
1994	Editorial Board, <u>Catheterization and Cardiovascular Diagnosis</u>

1999	Editorial Board, <u>Current Controlled Trials in Cardiovascular Medicine</u>
2000	Editorial Board, <u>Cardiovascular Engineering</u>

Reviewer

American Journal of Cardiology
American Heart Journal
Journal of the American College of Cardiology
Annals of Internal Medicine
Catheterization and Cardiovascular Diagnosis
Chest
Circulation
Circulation Research

CAMPUS ACTIVITIES

University of Pennsylvania

1985-93	Member, University of Pennsylvania Committee on Studies Involving Human Beings and The RDRC and Radiation Safety Committee
1986-90	Member, Ph.D. Advisory Group in Bioengineering Department of Bioengineering
1986-87	Member, Cardiac Care Task Force Value Improvement Program, Department of Medicine
1986-88	Member, Clinical Practices Advisory Committee, Department of Medicine
1987-88	Member, HUP Interdisciplinary Quality Review Committee, Department of Medicine
1989-90	Cardiac Business Planning Group, Hospital of the Univ. of Pennsylvania
1989-90	Member, Search Committee for HUP Director of Pharmacy
1990-92	Member, Search Committee for Chief, Cardiology Division, Children's Hospital of Philadelphia
1991-95	Member, Cardiac Catheterization Oversight Committee
1993-95	Chairman, Task force III University of Pennsylvania Committee on Studies Involving Human Beings

University of Maryland

1995-98	Chairman, Quality & Outcomes Committee - UMMS Cardiac Network
1995-96	Member, Multispecialty Practice Sites Clinical Service Planning Committee
1995-99	Member Credentialing Committee
1995-98	Member, Continuing Quality Initiative Committee
1996-98	Member, Clinical Quality Pathways
1996-99	Member, Phase III Cath Lab Needs Assessment Committee
1996	Member, Ph.D. Advisory Group, School of Pharmacy

COMMITTEE ACTIVITIES OUTSIDE THE UNIVERSITY

ACC

1996- Member, Clinical Practice Expert Panel, American College of Cardiology
1996-97 Writing Group, Cardiac Catheterization Committee, American College of Cardiology
1996-97 Writing Group, ACC Expert Consensus Committee on Radiation Safety, American College of Cardiology
1999-2001 Writing Group, ACC/SCA&I Clinical Expert Consensus Document on Catheterization Laboratory Standards
1995- Abstract Reviewer, Annual Scientific Sessions
1998- Abstract Session Moderator, Annual Scientific Sessions
1998 Member, ACC 1999 Annual Scientific Session Program Committee
1999 Member, ACC 2000 Annual Scientific Session Program Committee
2000 Member, ACC 2001 Annual Scientific Session Program Committee

AHA

1993-94 Member Peer Review Sub-Committee, American Heart Association, Maryland Affiliate
1996- Abstract Reviewer, Annual Scientific Sessions
1996- Abstract Session Moderator, AHA Annual Scientific Sessions

NIH

2002- Member, Special Study Section ZRG1

FDA

1998- Member, FDA Circulatory System Devices Advisory Panel
2001- Acting Chairman, FDA Circulatory System Devices Advisory Panel

NRC

1997- Member, NRC Medical Rule-Making Workshop
1997- Member, ACC/ASNC/SCAI Ad Hoc Task Force on NRC Regulations

SCA&I

1997-2001 Member, NEMA-SCA&I ad hoc Working Group on Benchmarking Cardiac Fluoro Performance.

MISC

1997-98 Chairman, DSMB, Medtronic Be-Stent Trial
1997-98 Chairman, DSMB, Schwartz-Pharma LR-3280, Antisense Oligodeoxynucleotide to *c-myc*

OFFICES HELD

1990-93 Co-Chairman, Credentials Committee, Society for Cardiac Angiography & Interventions
1992-93 Co-Chairman, Program Committee, Society for Cardiac Angiography & Interventions
1992-95 **Trustee**, Society for Cardiac Angiography & Interventions
1992 Scientific Program **Chairman**, Annual Meeting of Society for Cardiac Angiography and Interventions, Charleston, South Carolina

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| 1993-96 | Chairman , Program Committee, Society for Cardiac Angiography & Interventions |
| 1994 | Scientific Program Chairman , Annual Meeting of the Society for Cardiac Angiography & Interventions, Seattle Washington |
| 1996-97 | President , Society for Cardiac Angiography & Interventions |
| 1998 | Scientific Program Chairman , Annual Meeting of the Society for Cardiac |
| 1998- | Director , Melvin P. Judkins Cardiac Imaging Symposium |
| 1998- | Chairman , ACC Annual Scientific Sessions Program Committee-Subcommittee in Exhibits |

CLINICAL AND TEACHING RESPONSIBILITIES

University of Pennsylvania

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| 1981-95 | Private in-patient service, 12 mos/year |
| 1981-95 | Intensive Care Unit Attending physician at HUP/PVA/MC 10 weeks/year |
| 1981-95 | Attending Physician, Cardiac Catheterization Laboratory 12 months/year |
| 1983-93 | Responsible for organization and coordination of research efforts in the catheterization laboratory (two-three research fellows per year) |
| 1985-95 | Cardiovascular radiology: one month elective rotation for radiology residents at HUP |
| 1990-95 | Director, Adult Congenital Heart Disease program: weekly clinic attended jointly by HUP and CHOP cardiology fellows |

University of Maryland

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| 1995-01 | Director, Cardiac Catheterization Laboratory, University of Maryland Hospital |
| 1995- 02 | Director, Interventional Cardiology Training Program |

GRANT SUPPORT

Principal Investigator (Local)

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| 1986-90 | A study of the safety and efficacy of various doses of BW-tPA in patients with acute myocardial infarction. |
| 1987-90 | Circadian anti-ischemic program |
| 1990-92 | Thrombolysis in myocardial ischemia (TIMI 3B) A Multi-Center Study of Thrombolysis In Myocardial Ischemia NIH |
| 1992-93 | A Randomized, Open Label, Dose Response Study To Evaluate the Effects of BM 06.022 (r-PA) at Doses of 15 MU, 10+5 MU and 10+10 MU,
Relative to Alteplase (100mg), on Coronary Artery Patency and Safety in Patients with Acute Myocardial Infarction |

1994-95	Effect of Intravenous ifetroban (BMS - 180291) on myocardial ischemia elicited by transient coronary artery occlusion.	
1995-96	A randomized, single-blind study of two doses of Novastan®(brand of argatroban) versus heparin as adjunctive therapy to recombinant tissue plasminogen activator (rt-PA) (accelerated administration) in acute myocardial infarction.	
1996-97	Efficacy of intracoronary heparin delivery in patients undergoing PTCA.	
1997-	Beta-energy Therapy to Address Coronary Atherosclerosis.	
1997-98	A Phase IV, Prospective, Randomized, Double-Blind, Multicenter Trial of High Risk Patients Undergoing Coronary Artery Intervention Procedure.	Visipaque®
1998-99	A Multicenter study of the CrossFlex LC-Balloon-Expandable Stent mounted on the Valor OTW Delivery System in patients with de novo or restenotic native coronary artery or saphenous vein graft lesions.	
1998-	Stents and Radiation Therapy Trial (START).	
1999-	A Multicenter study of the Velocity™ Stent to evaluate patients with <i>de novo</i> or restenotic native coronary artery lesions.	
1999-	Prevention of Restenosis With Tranilast (PRESTO).	
2000-	Sound Wave Inhibitor of Neo-Intimal Growth (SWING).	
2001-	Bypass Angioplasty Revascularization Intervention in type 2 Diabetes (BARI-2D).	

Principal Investigator (National)

1999-00	Stents and Radiation Therapy Trial (START 40)
2002-	Phase 3B, Double Blind Randomized Comparator Study Evaluating Renal Toxicity of Visipaque (iodixanol) vs. Optiray (Ioversol) in Renally Impaired Patients Undergoing Coronary Arteriographic Procedures.

Research Mentorships

Proprietary information has been deleted.

BIBLIOGRAPHY

Refereed Articles

1. Laskey WK, Sarosi GA: Endogenous activation in blastomycosis. Ann Inter Med 88:50, 1978
2. Laskey WK, Sarosi GA: The radiologic appearance of pulmonary blastomycosis. Radiology 126:351, 1978

3. Sarosi G, Eckman M, Davies S, *Laskey WK*.: Canine blastomycosis as a harbinger of human disease. *Ann Inter Med* 91:733-35, 1979
4. *Laskey WK*, Bianco JW, Shafer RB, From AHL: The assessment of left ventricular function in aortic insufficiency using echocardiography, gated scintigraphy and contrast angiography. *Clin Nuc Med* 4:279, 1979
5. Bianco T, Makey D, *Laskey WK*, Shafer R: Radionuclide left ventricular dv/dt for the assessment of cardiac function in patients with coronary disease. *J Nucl Med* 20;1, 1979
6. Bianco J, *Laskey WK*, Makey D, Shafer RB: Angiotensin infusion effects on left ventricular function. *Chest* 77:172-178 1980
7. *Laskey WK* , Sarosi GA: Blastomycosis in childhood. *Ped* 65:111-114, 1980
8. *Laskey WK*, Untereker, WJ, Kusiak V, Martin, JL, Groh WC, Hirshfeld JW, Jr: A safe and rapid technique for retrograde catheterization of the left ventricle in aortic stenosis. *Cathet Cardiovasc Diagn* 8:429-435, 1982
9. *Laskey WK*, Kusiak V, Untereker WT, Hirshfeld JW, Jr: Transseptal left heart catheterization: Utility of a sheath technique. *Cathet Cardiovasc Diagn* 8:535-542, 1982
10. Wilson JR, Martin JL, Untereker WJ, *Laskey WK*, Hirshfeld JW, Jr: Sequential changes in regional coronary flow during pacing-induced angina pectoris: coronary flow limitation precedes angina. *Am Heart J* 107:269-277, 1982
11. Martin JL, Wilson JR, Untereker WJ, *Laskey WK*, Burch J., Hirshfeld, JW, Jr: Effect of atrial pacing on intracoronary thromboxane production in coronary disease *J Am Coll Cardiol* 1:194-200, 1983
12. *Laskey WK*, Reichek N. St. John Sutton M, Untereker W, Hirshfeld, JW, Jr: Myocardial oxygen consumption in left ventricular hypertrophy and its relation to left ventricular mechanics. *Am J Cardiol* 52:852-58, 1983
13. Doherty JV, *Laskey WK*, Wagner H, Stephenson, LW, Rashkind WJ: Coronary bronchial artery fistula with partial absence of a pulmonary artery: association with partial anomalous pulmonary venous drainage. *J Am Coll Cardiol* 2:369-73, 1983
14. Hirshfeld JW, Jr, *Laskey WK*, Martin JL, Groh WC, Untereker W, Wolf GL: Hemodynamic changes induced by cardiac angiography with ioxaglate: A comparison with Diatrizoate. *J Am Coll Cardiol* 2:954-7, 1983

15. *Laskey WK, St. John Sutton M, Untereker WJ, Martin JL, Hirshfeld JW, Jr, Reichek N: Mechanics of pulsus alternans in aortic valve stenosis. Am J Cardiol 52:809-12, 1983*
16. *Laskey WK, Reichek N, St. John Sutton M. Untereker WJ, Hirshfeld JW, Jr: Matching of myocardial oxygen consumption to mechanical load in human left ventricular hypertrophy and dysfunction. J Am Coll Cardiol 3:291-300, 1984*
17. *Laskey WK, St John Sutton M, Zeevi G, Hirshfeld JW, Reichek N: Left ventricular mechanics in dilated cardiomyopathy. Am J Cardiol 54:620-625, 1984*
18. *Martin JL, Likoff MJ Janicki JS, Laskey WK, Hirshfeld JW, Weber KT: Myocardial energetics and clinical response to the cardiotonic agent MDL17,043 in advanced cardiac failure. J Am Coll Cardiol 4:875-883, 1984*
19. *Martin JL, Wilson JR, Ferraro N, Laskey WK, Kleaveland JP, Hirshfeld JW: Acute coronary vasoconstrictive effects of cigarette smoking in coronary heart disease. Am J Cardiol 54:56-60, 1984*
20. *Martin JL, Fisher CA, Untereker WJ, Laskey WK, Hirshfeld JW, Harken AH, Addonizio VP: Effect of high dose aspirin on coronary hemodynamics during pacing - induced myocardial ischemia. J Am Coll Cardiol 5:210-215, 1985*
21. *Laskey WK, Shroff SG, Kussmaul W, Martin JL, Kleaveland JP, Hirshfeld JW: Arterial pressure/flow relationships in heart failure due to congestive cardiomyopathy. Cardiovas Systems Dynamics Society 6th Int. Conference Workshop pp 324-327, 1984, Phila., PA Univ. of PA*
22. *Laskey WK, Kussmaul WG, Martin JL, Kleaveland JP, Hirshfeld JW, Shroff S: Characteristics of vascular hydraulic load in heart failure. Circ 72:61-71, 1985*
23. *Laskey WK, Zeevi GR, St. John Sutton M, Martin JL, Hirshfeld JW, Reichek N: Effects of nitroglycerin in patients with angina, normal coronary arteries and left ventricular hypertrophy. Am Heart J 112:953-962, 1986*
24. *Laskey WK, Kussmaul WG: Arterial wave reflections in heart failure. Circ 75:711-727, 1987*
25. *Kussmaul WG, Kleaveland JP, Martin JL, Hirshfeld JW, Laskey WK: Left ventricular ejection dynamics in dilated cardiomyopathy: Effects of exercise and nitroprusside. Am J Cardiol 59:647-655, 1987*
26. *Barnathan E, Schwartz JS Taylor L, Laskey WK, Kleaveland JP, Kussmaul WG, Hirshfeld JW: Aspirin and dipyridamole in the prevention of acute coronary thrombosis complicating coronary angioplasty. Circulation 76:125-134, 1987*

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29. Kussmaul WG, Smith DL, Herrmann HC, Hirshfeld JW, *Laskey WK*: Method for quantitation of abnormal right atrial pressure wave forms: application to constrictive pericarditis. *J Inv. Cardiol* 1:213-218, 1989
30. *Laskey WK*, Parker HG, Ferrari V, Kussmaul WG: Estimation of total systemic arterial compliance in humans. *Am J Physiol* 69:112-119, 1990
31. Laskey MA, Deutsch E, Barnathan E, *Laskey WK*: Influence of heparin therapy on PTCA outcome in unstable angina. *Am J Cardiol* 65:1425-1429, 1990
32. Laskey MA, Deutsch E, Hirshfeld JW, Kussmaul WG, Barnathan E, *Laskey WK*: Influence of heparin therapy on PTCA outcome in patients with coronary arterial thrombus. *Am J Cardiol* 65:179-182, 1990
33. *Laskey WK*, Kussmaul WG, Noordergraaf A: Aortic impedance in human heart failure: Importance of low frequency harmonics. *Proc of 12th Ann Int Conf IEEE EMBS* 12(3) 1156-1157, 1990
34. Deutsch E, Berger M, Kussmaul W, Hirshfeld J, Herrmann H, *Laskey WK*: Ischemic Adaptation During PTCA. clinical, hemodynamic and metabolic features *Circulation* 82:2044-2051, 1991
35. Kussmaul WG, Altschuler J, Herrmann HC, *Laskey WK*: Effects of pacing tachycardia and balloon valvuloplasty on pulmonary artery impedance and ventricular vascular coupling in mitral stenosis. *Circulation* 86:1770-1779, 1992
36. Vaitkus PT, Herrmann HC, *Laskey WK*: Management and immediate outcome of patients developing intracoronary thrombus during percutaneous transluminal coronary angioplasty. *Am Heart J* 124:1-8, 1992
37. Berger D, Li J, *Laskey WK*, Noordergraaf A: Left ventricular compliance pumping and arterial system wave reflection. *Proc.14th Ann Int Conf IEEE EMBS* 14(2): 677-678, 1992
38. Sehgal CM, Arger PH, Yeramamosu V, Krol J, *Laskey WK*: In-vivo estimation of radial distribution of coronary wall stress. *Am Ins Ultr Med* 5:21, 1992

39. *Laskey WK, Ferrari VA, Palevsky HI, Kussmaul WG: Pulmonary arterial hemodynamics in primary pulmonary hypertension. J Am Coll Cardiol 21:406-412, 1993*
40. *Berger DS, Li J, Laskey WK, Noordergraaf A: Repeated reflection of waves in the systemic arterial system. Am J Physiol 264:H269-H281, 1993*
41. *Kussmaul WG, Wieland J, Altschuler J, Laskey WK: Pulmonary impedance and right ventricular-vascular coupling during coronary angioplasty. Am J Physiol 74:161-169, 1993*
42. *Berger DS, Li J, Laskey WK, Noordergraaf A: Multiple wave reflections in the systemic arterial system. Proc of 13th Ann Int. Conf. IEEE EMBS 13(5):2044-2045, 1993*
43. *Laskey WK, Brady ST, Kussmaul WG, Waxler AR, Krol J, Herrmann HC, Hirshfeld JW, Sehgal C: Intravascular ultrasonographic assessment of the results of coronary artery stenting. Am Heart J 125:1576-1583, 1993*
44. *Kussmaul WG, Altschuler JA, Matthai WH, Laskey WK: Right ventricular-vascular interaction in congestive heart failure: Importance of low frequency impedance. Circulation 38:1010-1015, 1993*
45. *Laskey WK, Ferrari VA, Palevsky HI, Kussmaul WG: Ejection characteristics in primary pulmonary hypertension. Am J Cardiol 71:1111-1114, 1993*
46. *Turi, ZG, Goldberg S, VanderArk C, Shadoff N, Karlsberg R, Williams J, Butman S, Stanlius ML, Wise K, Buchbinder M, Genton E, Laskey WK, DeMaria A, White C, Sheehan F, Comp PC, Fowler GB, Edwards S, Little John JK: Dose related efficacy and bleeding complications of double chain tissue plasminogen activator in acute myocardial infarction. Am J Cardiol 71:1009-1014, 1993*
47. *Kussmaul WG, Krol J, Laskey WK, Herrmann HC, Hirshfeld JW Jr: Culprit vs multivessel coronary angioplasty: one year follow-up results of a randomized trial. Am J Cardiol 71:1431-1432, 1993*
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49. *Berger DS, Li J, Laskey wk, Noordergraaf A: Effects of eliminating wave reflections on developed pressure and flow: A model based study. Proc. 15th Ann. Int. Conf. IEEE EMBS 15:899-900, 1993*
50. *Kolansky DM, Shapiro TA, Laskey WK: Prolonged heparin therapy for occlusive intracoronary thrombus. Cathet Cardiovasc Diagn 30:150-152, 1993*

51. Shapiro TA, *Laskey WK*: Profound vasospasm of the internal mammary artery complicating percutaneous balloon angioplasty. *J Clin Invest* 4:35-38, 1993
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53. Vaitkus PT, *Laskey WK*: Efficacy of adjunctive thrombolytic therapy in percutaneous transluminal coronary angioplasty. *J Am Coll Cardiol* 14:1415- 1423, 1994
54. *Laskey WK*, Kussmaul WG: Pressure recovery in aortic valve stenosis. *Circulation* 89:116-121, 1994
55. Seghal CM, Guidera SA, *Laskey WK*: Estimation of Circumferential wall stress and hemodynamic shear in coronary arteries using intravascular ultrasound. *Am Heart J* (in press)
56. *Laskey WK*, Kussmaul WG, Noordergraaf A: Valvular and systemic arterial hemodynamics in aortic valve stenosis: A model based approach. *Circulation* 92:1473-1478, 1995
57. Kimmel SE, Berlin JA, *Laskey WK*: Development and validation of simplified predictive index for major complications in contemporary percutaneous transluminal coronary angioplasty practice. *J Am Coll Cardiol* 26:931-938, 1995
58. Kimmel SE, Berlin JA, *Laskey WK*: The relationship between coronary angioplasty procedure volume and major complications. *JAMA* 274:1137-1142, 1995
59. Movsowitz C, Kussmaul WG, *Laskey WK*: Left ventricular diastolic response to exercise in aortic valve stenosis. *Am J Cardiol* 77:275-280, 1996
60. Kimmel SE, Berlin JA, Hennessy, Strom BL, Krone RJ, *Laskey WK*: Risk of major complications from coronary angioplasty performed immediately after diagnostic coronary angioplasty. *J Am Coll Cardiol* 30:193-200, 1997
61. Lim R, Zawacki K, *Laskey WK*: Creatine Kinase release after catheter-based coronary intervention. *Cathet Cardiovasc Diagn* 41:117-119, 1997
62. Le TQ, *Laskey WK*, McLaughlin J, White C: Utility of magnetic resonance imaging in a patient with anomalous origin of the right coronary artery, acute myocardial infarction and near sudden cardiac death. *Cathet Cardiovasc Diagn* 42:205-207, 1997
63. *Laskey WK*, Lim R: Ischemic preconditioning in unstable coronary syndromes. *J Am Coll Cardiol* 30: 1461-1465, 1997

64. Writing Group. Recommendations for the assessment and maintenance of proficiency in coronary interventional procedures. Statement of the American College of Cardiology (Committee on Cardiac Catheterization). *J Am Coll Cardiol* 31:722-743, 1998
65. Writing Group. Radiation Safety in the Practice of Cardiology. Statement of the American College of Cardiology. *J Am Coll Cardiol* 31:892-913, 1998
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67. *Laskey WK*, Zawacki K, Lim R, Herzog, W. Effects of local heparin administration on coronary thrombin activity during PTCA. *Cathet Cardiovasc Intervent* 48:84-88, 1999
68. *Laskey WK*: Beneficial impact of preconditioning during PTCA on creatine kinase release. *Circulation* 99:2085-2089, 1999.
69. *Laskey WK*, Kimmel SE, Krone RJ. Contemporary Trends in Coronary Intervention: A Report From The Registry of the Society for Cardiac Angiography and Interventions. *Cathet Cardiovasc Intervent* 49:19-22, 2000.
70. Kimmel SE, Localio AR, Krone AJ, *Laskey WK*. The Effects Of Contemporary Use Of Coronary Stents On In-Hospital Mortality and Coronary Bypass. *J Am Coll Cardiol* 37:499-504, 2001.
71. *Laskey WK*, Stueve R, Wondrow M, Grill D, Homes DR. Image Quality Assessment In Contemporary Interventional Cardiology Laboratories: I. Spatial and Low Contrast Video Resolution. *Cathet Cardiovasc Intervent* 50:257-263, 2000.
72. Davidson C, *Laskey WK*, Hermiller JB, Harrison JK, Matthai W, Vlietstra RE, Brinker JA, Kereiakes DJ, Muhlestein JB, Lansky A, Popma J, Buchbinder M, Hirshfeld JW. A Randomized Trial Of Contrast Media Utilization in High Risk PTCA (The COURT trial). *Circulation* 101:2172-2177, 2000.
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74. Writing Group. ACC/SCA&I Expert Consensus Document On Cath Lab Standards. *J Am Coll Cardiol* 37: 2172-2211, 2001
75. *Laskey WK*, et al. Changes In The Practice of PCI: A Comparison of Enrollment Waves of the NHLBI Dynamic Registry *Amer J Cardiol.* 87:964-969, 2001

76. White CS, *Laskey WK*, Stafford JL, NessAiver M. Coronary MRA: Use In Assessing Anomalies of Coronary Artery and Origin. *Journal of Computer Assisted Tomography* 23: 203-207, 1999.
77. Al-Suwaidi J, Yeh W, Williams DO, *Laskey WK*, Cohen HA, Detre KM, Kelsey SF, Homes, DR. Comparison Of Intermediate One- Year Outcome After Coronary Angioplasty of Narrowing <3mm to Those \geq 3mm (The National Heart, Lung, and Blood Institute Dynamic Registry). *Am J Cardiol* 87: 680-686, 2001
78. Wondrow MA, *Laskey WK*, Hildner FJ, Cusma J, Holmes, DR. Cardiac Catheterization Laboratory Imaging Quality Assurance Program. *Cathet. Cardiovasc. Int.* 2: 59-66, 2001.
79. *Laskey WK*, Kussmaul WG. Subvalvular Gradients in Patients With Aortic Valve Stenosis. *Circulation* 104: 1019-1023, 2001
80. *Laskey WK*, Selzer F, Vlachos HA, Johnston J, Jacobs A, King SB III, Holmes DR, Douglas J, Block P, Wilensky R, Williams DO, Detre K. Comparison of in-hospital and 1-year outcomes in patients with diabetes mellitus Undergoing Percutaneous Catheter Intervention(from the NHLBI Dynamic Registry) *Am J Cardiol* 90:1062-67, 2002
81. Holubkov R, *Laskey WK*, Haviland A, Slater JC, Bourassa MG, Vlachos H, et al. Angina One year After Percutaneous Coronary Intervention: A Report From the NHLBI Dynamic Registry. *Am. Heart J* 144:826-33, 2002.
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83. Krone RJ, Kimmel SE, *Laskey WK*, Klein LW, Schechtman KB, Cosentino JJM, Babb JD, Weiner BM. Evaluation of the SCA&I Lesion Classification System in 14,133 Patients With PCI in the Current Stent Era. *Cathet. Cardiovasc. Int.* 55: 1-7, 2002
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85. Suntharalingham M, *Laskey WK*, Tan J, Lansky A, Teirstein P, Bass T, Silber S, Rutherford B, Wilmer C, Popma J, Kuntz R, Bonan R. Vascular brachytherapy using a beta emitter source in diabetic patients with in-stent restenosis: angiographic and clinical Outcomes. *Int J Rad Onc Biol Phy.* 57:536-542, 2003

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Abstracts

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MAJOR INVITED PRESENTATIONS

Cardiology Grand Rounds, Albert Einstein College of Medicine of Yeshiva University, Bronx, N.Y., April 5, 1983: Topic: "Energy Supply Demand Relationships in Left Ventricular Hypertrophy"

Surgical Grand Rounds, Hospital of the University of Pennsylvania August 6, 1983. Topic: "Update on therapeutic angioplasty"

Symposium on Vascular Hemodynamic Impedance; 19th Annual Meeting of the Association for the Advancement of Medical Instrumentation: Washington, D.C., April 14, 1984, Topic: Characteristics of Hydraulic load in heart failure"

International Symposium on Cardiac Energetics, Gargellen, Austria, June 21, 1984. Topic: "Nitroglycerin effects on mechanical-energetic coupling in human left ventricular hypertrophy"

Cardiology Grand Rounds, Minneapolis Heart Institute, Abbott Northwestern Hospital, Minneapolis Minn. February 15, 1985. Topic: "Aortic impedance in heart failure"

Seventh Annual Conference of the IEEE Engineering in Medicine & Biology Society, Chicago, IL, Sept. 28, 1985. Topic: "Components of vascular hydraulic load based on a Windkessel model"

American Academy of Dermatology, Las Vegas, NV, December 9, 1985. Topic: "Update in interventional cardiology for the practicing internist"

Cardiology Grand Rounds, Cooper Hospital, Camden, New Jersey, January 5, 1987. Topic: Left ventricular mechanics and evaluation of valvular heart disease"

Medicine Grand Rounds, V.A. Hospital Medical Center, Philadelphia, PA. March 5, 1987. Topic: "The acute MI"

Cardiology Conference, Children's Hospital of Philadelphia, March 20, 1987. Topic: "Coronary artery disease".

13th Canadian Medical and Biological Engineering Conference, Halifax, Nova Scotia, Canada, June 9, 1987. Topic: "Physiologic application of a windkessel model of vascular hydraulic load"

Medical Grand Rounds, Sacred Heart Hospital, Allentown, PA, Jan. 6, 1988. Topic: "Thrombolytic and catheter-related therapy for the acute myocardial infarction"

Medical Grand Rounds, Riddle Memorial Hospital, Media, PA, April 15, 1988. Topic: "Percutaneous balloon valvuloplasty"

Orientation Program for the University of Pennsylvania PennSTARR flight crew, Hospital of the University of Pennsylvania, Philadelphia, PA, May 2, 1988. Topic: "Invasive cardiology"

Medical Grand Rounds, Mercy Hospital, Scranton, PA, Oct. 7, 1988 Topic: "Newer strategies in the management of congestive heart failure"

Family Practice Grand Rounds, York Hospital, York, PA, Nov. 3, 1988. Topic: "Congestive heart failure"

Medical Grand Rounds, Taylor Hospital, Ridley Park, PA, Nov. 17, 1988. Topic: "Thrombolytic therapy of acute myocardial infarction"

Continuing Medical Education Program - Southern Chester County Hospital, March 15, 1989. Topic: "Management of acute ischemic syndromes"

Cardiology Grand Rounds, Northeastern Hospital, Philadelphia, PA, September 21, 1989. Topic: "Unstable angina"

Continuing Medical Education Program - Brandywine Hospital Department of Internal Medicine and Family Practice, November 3, 1989. Topic: "Update on interventional cardiology"

Continuing Medical Education Program Berks County Medical Society, Reading, PA, January 10, 1990. Topic: "Management of patients with unstable angina"

Cardiology Grand Rounds, Episcopal Hospital, Philadelphia, PA, February 17, 1990. Topic: "Acute ischemic syndromes"

Cardiology Grand Rounds, Graduate Hospital, Philadelphia, PA, April 30, 1990. Topic: "Coronary hemodynamics during PTCA"

Cardiology Grand Rounds, Temple University Hospital, Philadelphia, PA, October 12, 1990. Topic: Ischemic adaptation during PTCA

Medical Grand Rounds, Crozer-Chester Medical Center, October 30, 1990. Topic: "Management of unstable angina"

Twelfth Annual International Conference of the IEEE Engineering in Medicine & Biology Society, Philadelphia, PA, November 3, 1990. Topic: "Aortic impedance in human heart failure - importance of low frequency harmonics"

Medical Grand Rounds, Rolling Hill Hospital, Philadelphia, PA, April 4, 1991. Topic: "Acute ischemic syndromes"

Cardiology Rounds, Medical College of Pennsylvania, Philadelphia, PA, September 11, 1991. Topic: "Coronary hemodynamics during PTCA"

Medical Grand Rounds, V.A. Hospital, Philadelphia, PA, Sept. 5, 1991. Topic: "Ischemic preconditioning"

Medical Grand Rounds, Nazareth Hospital, Philadelphia, PA, September 11, 1991. Topic: "Management of congestive heart failure"

Cardiology Grand Rounds, Albert Einstein Medical Center, Philadelphia, PA, Feb. 19, 1992. Topic: "Intravascular ultrasound"

Contemporary Management of Unstable Angina, Breckenridge, CO, March 20-22, 1992. Topic: "Pharmacologic assists for angioplasty in unstable angina"

Cardiology Grand Rounds, Medical College of Pennsylvania, Philadelphia, PA. October, 1992. Topic: "Intravascular ultrasound in interventional cardiology"

Contemporary Management of Unstable Anginal Syndromes, Breckenridge, CO, Jan 22-24, 1993.
Topics: 1) "Anticoagulant therapy" 2) "Antianginal therapy"

Contemporary Management of Unstable Coronary Syndromes, Breckenridge, CO, Jan. 27-29, 1994.
Topics: 1) "Antianginal therapy" 2) "Adjunctive therapy during PTCA"

Chief of Medicine Conference, Princeton Medical Center, Princeton, New Jersey, May 11, 1994.
Topic: "Adult Congenital Heart Disease"

Society for Cardiac Angiography & Interventions, 17th Annual Meeting, Seattle, WA, May 28, 1994.
Core Curriculum: "The Adult with Congenital Heart Disease"

Society for Cardiac Angiography & Interventions, 19th Annual Meeting, Colorado Springs, CO, May 14, 1996. Topic: "Challenges for the Cardiac Cath Lab"

Internal Medicine Clinical Review, Suburban Hospital, Bethesda, MD, Nov. 22, 1996. Topic: "Congenital Heart Disease in Adults"

North American Society for Cardiac Imaging, 24th Annual Meeting, New Orleans, LA, Nov. 9, 1996.
Topic: "The Role of Cardiac Imaging Societies in Promoting the Clinical Use of Cardiac MRI"

American College of Cardiology, 46th Annual Scientific Session, Anaheim, CA, Mar. 18, 1997.
Topic: "The Shared Evaluation of the Complex Vascular Patient"

Latin American Society of Interventional Cardiology (SOLACI '97), 2nd Congress, Buenos Aires, Argentina, Aug. 1, 1997. Topic: "Predictive Index for Major Complications in PTCA and Data from the Registry of the Society for Cardiac Angiography and Interventions"

Society for Cardiac Angiography and Intervention, Cardiac Imaging Symposia
October 15, 1998 - Los Angeles CA, October 29, 1998 – Boston, MA, November 5, 1998 – Miami, Florida
Topic: Considerations of Going Filmless in the Catheterization Laboratory

Cardiology Grand Rounds, Vanderbilt University School of Medicine, Nashville, TN, Nov 4, 1998.
Topic: "Intravascular radiation for the treatment of coronary artery disease"

International Visipaque in PTCA; Paris, France, February 19, 1999.
Topic: "The COURT Trial Results"

American College of Cardiology, 48th Annual Scientific Sessions, New Orleans, LA, March 7, 1999.
Topic: "Fireside Panel on Cine Film Replacement"

Society for Cardiac Angiographic Interventions, 23rd Annual Meeting, Monterey, CA, May 1999.
Topic: Credentialing Aspects of Intravascular Brachytherapy

ACC/SCA&I, Interventional Cardiology Board Review, San Francisco, CA, August 27-28, 1999.
Topics:

- 1) Coronary Anatomy/Physiology
- 2) Complex Multi-Vessel Angioplasty
- 3) Anticipation and Management of Complications

Post Graduate Course, Cardiovascular Disease: State of the Art, Charlottesville, VA, October 1, 1999
Topic: An Invasive Approach To Management of Acute Coronary Syndromes

3rd Tremblant Interventional Cardiology Course, Montreal Canada, February 3-6, 2000
Topic: Update on Coronary Brachytherapy

American College of Cardiology, 49th Annual Scientific Sessions, Anaheim, CA, March 2000
Topic: Meet the Experts: Cine Film Replacement (Co-Chair)

American College of Cardiology, 49th Annual Scientific Sessions, Anaheim, CA, March 2000
Topic: In-Stent Restenosis

American College of Cardiology, 49th Annual Scientific Sessions, Anaheim, CA, March 2000
Topic: Intracoronary Radiation: Part 2, BETA cath and START trials

Percutaneous Balloon Valvuloplasty: A Practical Course for Invasive Cardiologists, Chicago, IL, June 2-3, 2000
Topic: Aortic Stenosis Guidelines

American Heart Association Meeting, New Orleans, November 13, 2000.
Topic: Intracoronary Brachytherapy in Restenosis

Cardiovascular Radiation Therapy V and Restenosis Forum, Washington, DC, February 5-7, 2001
Topics: 1) Vascular Brachytherapy: Only A Trained Cardiologist
2) Clinical Trials: START and START 40

Final Annual Port Douglas Heart Meeting, Port Douglas, Australia. May 18-20, 2001.
Topics: 1) High Risk PCI
2) Intervention in Adults with Valvular and Congenital Heart Disease.

ACC/SCA&I, Interventional Cardiology Board Review, Atlanta GA. August, 2001.
Topics:
1) Anticipating and Managing Complications of Coronary Intervention
2) Multi-vessel PCI: Strategies for Success

3) Radiographic Contrast Media: A Review of the Essentials

Cardiology Grand Rounds, University of Oklahoma, Oklahoma City. Sept 28, 2001. Topic: Radiographic Contrast Media: the Old and the New.

American Heart Association Meeting, Anaheim CA. Nov 13 2001.
Topic: How to Start Brachytherapy in Your Lab

Cardiology Grand Rounds, Mt Sinai Medical Center, Miami Florida. March 28, 2002. Topic: Radiographic Contrast Media: an update.

Brazilian Society for Interventional Cardiology, Rio de Janeiro; Sao Paolo. April 22,23, 2002. Topic: New Developments in Radiographic Contrast Media.

Uruguay Interventional Cardiology, Montevideo, Uruguay, April 24, 2002. Topic: New Developments in Radiographic Contrast Media

St Louis Regional Interventiional Cardiology Conference, St Louis, Missouri. July 25, 2002. Topic: Radiographic Contrast Media: the old and the new

ACC/SCA&I, Interventional Cardiology Board Review, Atlanta GA. August 17, 2002. Topic: Anticipating and Managing Complications of Coronary Intervention.

Trans-Catheter Therapeutics (TCT) 2002, Washington, DC. September 26, 2002. Topic: Vascular Brachytherapy in Diffuse Disease: Insights from START 40.

The Science of Contrast Media: European Summit on renal function and osmolality. Montreux, Switzerland. February 20-22, 2003. Topic: Thromboembolic risk of radiographic contrast media.

American College of Cardiology 52nd Annual Scientific Session, Chicago, Illinois; March 2003. Topic: Overview of randomized trials of Vascular brachytherapy

XIX Nordic Congress of Cardiology, Odense, Denmark; June 4, 2003. Topic: Thromboembolic risk with contrast media: are all agents the same?

Trans-Catheter Therapeutics (TCT) 2003, Washington DC. September 16, 2003. Topic: SCAI Imaging Symposium. Chairman.

Trans-Catheter Therapeutics (TCT) 2003, Washington DC September 18, 2003. FDA Town Hall Meeting. Topic: Salvage of failed pivotal trials